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Crystal D. Sayles			MYERS, PAUL R	
C/O BLAKELY	r, sokoloff, taylo	R & ZAFMAN LLP		
12400 Wilshire Boulevard			ART UNIT	PAPER NUMBER
Seventh Floor			2112	
Los Angeles, C	CA 90025		DATE MAIL ED. 02/15/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Author Occurrence	09/964,805	BARMORE, BRAD A.				
Office Action Summary	Examiner	Art Unit				
·	Paul R. Myers	2112				
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPORTED MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a recommunication of the period for reply specified above, the maximum statutory period for reply within the set or extended period for reply will, by statution and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be to ply within the statutory minimum of thirty (30) daily will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	imely filed  sys will be considered timely.  n the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 29 i	November 2004.					
	is action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreig</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documer</li> <li>2. Certified copies of the priority documer</li> <li>3. Copies of the certified copies of the priority application from the International Burea</li> <li>* See the attached detailed Office action for a list</li> </ul>	nts have been received.  Ints have been received in Applica  Ints rece	tion No ved in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summar	y (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
<ol> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	6) Notice of Informal	ratent Application (PTO-152)				

Art Unit: 2112

### **DETAILED ACTION**

# Response to Arguments

1. Applicant's arguments with respect to claims 1-22 have been considered but are moot in view of the new ground(s) of rejection.

Applicants argument that Lehwalder teaches configuring codecs based on which codec is enabled/disabled and not based upon which the codec support capability of the codec controller is persuasive. The newly added reference to Caugherty teaches selecting codecs based on the codecs supported by digital signal processing software (Column 3 lines 5-16).

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lehwalder et al PN 6,609,170 in view of Caugherty PN 6,597,702.

As per claim 1, Lehwalder discloses a riser comprising: a plurality of riser codecs (21a-c); and an adaptive initialization module (signal control circuit) coupled to the riser codecs, the initialization module to configure (col. 4, lines 47-67) the riser codecs when the riser is connected to a motherboard having a codec controller (4) and a primary codec (20); said initialization module to automatically select between a first multi-codec configuration and a second multi-codec configuration based on a codec support capability of the codec controller

Art Unit: 2112

(col. 4, lines 62-67). Lehwalder selects codecs to configure based upon which codecs are enabled/disabled. Lehwalder does not does not teach selecting codecs to configure based upon the support capability of the codec controller. Caugherty teaches selecting codecs based upon the support capability of the codec controller (the DSP Column 3 lines 5-16). It would have been obvious to a person of ordinary skill in the art at the time of the invention to select the codec based upon the support capability of the codec controller because this would have prevented selecting a unsupported codec.

As per claim 2, Lehwalder discloses the riser of claim 1 wherein the first multi-codec configuration is a two-codec configuration (2 secondary codecs) and the second multi-codec configuration is a three-codec configuration (3 secondary codecs).

As per claim 3, Lehwalder discloses the riser of claim 2 wherein the initialization module includes: a detection module (e.g. routing module) to monitor a status of a signal (e.g. reset signal; or Presence indicator); and an address controller (ID Decoder module) coupled to the detection module and the riser codecs; said address controller to select a two-codec address structure when the signal status indicates that the codec controller supports up to two codecs and a three-codec address structure when the signal status indicates that the codec controller supports up to three codecs (col. 9, lines 10-45).

As per claim 4, Lehwalder discloses the riser of claim 3 wherein the signal status indicates whether data is to be delivered from the primary codec to the codec controller in a two-codec configuration (col. 9, lines 47-65).

As per claim 5, Lehwalder discloses the riser of claim 3 wherein the three-codec address structure includes: a first address corresponding to the primary codec; a second address

Art Unit: 2112

corresponding to a first riser codec; and a third address corresponding to a second riser codec (e.g. col. 9, lines 10-65).

As per claim 6, Lehwalder discloses the riser of claim 3 wherein the initialization module further includes an enabling mechanism (Reset signal) coupled to the primary codec, the enabling mechanism to disable the primary codec when the codec controller supports up to two codecs.

As per claim 7, Lehwalder discloses the riser of claim 6 wherein the two-codec address structure includes: a first address corresponding to a first riser codec; and a second address corresponding to a second riser codec (e.g. col. 9, lines 10-65).

As per claim 8, Lehwalder discloses the riser of claim 2 further including: a printed wiring board (e.g. motherboard) electrically connecting the riser codecs to the initialization module; and a connector (connector 5) coupled to the printed wiring board, the connector enabling electrical communication between the riser and the motherboard (figs. 1-2).

As per claim 9, Lehwalder discloses the riser of claim 8 wherein the connector has a data delivery pin, the data delivery pin enabling the initialization module to determine the codec support capability of the codec controller (presence indicator; fig. 2).

As per claim 10, Lehwalder discloses an adaptive initialization module, the initialization module comprising: a detection module (routing module; col. 8, lines 47-67) to monitor a status of a signal; and an address controller (ID decoder module) coupled to the detection module; said address controller to select a two-codec address structure when the signal status indicates that the codec controller supports up to two codecs and a three-codec address structure when the signal status indicates that the codec controller supports up to three codecs (col. 4, lines 60-67).

Art Unit: 2112

As per claim 11, Lehwalder discloses the initialization module of claim 10 wherein the signal status indicates whether data is to be delivered from a primary codec to the codec controller (presence indicator; signals whether the primary codec is enabled or not so as to send signals to the controller; fig. 2).

As per claim 12, Lehwalder discloses the initialization module of claim 10 wherein the three-codec address structure includes: a first address corresponding to the primary codec (col. 7, lines 38-39); a second address corresponding to a first riser codec (e.g. col. 7, lines 39-45); and a third address corresponding to a second riser codec (e.g. col. 7, lines 39-45).

As per claim 13, Lehwalder discloses the initialization module of claim 10 further including an enabling mechanism (Reset signal) coupled to the primary codec, the enabling mechanism to disable the primary codec when the codec controller supports up to two codecs (e.g. col. 9, lines 10-45).

As per claim 14, Lehwalder discloses the initialization module of claim 13 wherein the two-codec address structure includes: a first address corresponding to a first riser codec (first secondary codec); and a second address corresponding to a second riser codec (second secondary codec).

As per claim 15, Lehwalder discloses a riser (2) comprising: a plurality of riser codecs (fig. 2); a detection module (routing module) to monitor a status of a signal where the signal status indicates whether data is to be delivered from a primary codec to a codec controller (presence indicator; signals whether the primary codec is enabled or not so as to send signals to the controller; fig. 2); an address controller (ID decode module) coupled to the detection module and the riser codecs, said address controller to select a two-codec address structure (2 secondary

Art Unit: 2112

codecs) when the control signal indicates that the codec controller supports up to two codecs (primary on the motherboard is disabled) and a three-codec address structure (3 secondary codecs; when the primary on the motherboard is enabled) the control signal indicates that the codec controller supports up to three codecs; a printed wiring board (motherboard) electrically connecting the riser codecs to the detection module and address controller (figs. 1 and 2); and a connector (connector 5) coupled to the printed wiring board, the connector enabling electrical communication between the riser and a motherboard (col. 9, lines 10-65).

As per claim 16, Lehwalder discloses the riser of claim 15 wherein the connector has a data delivery pin (presence indicator), the data delivery pin enabling the riser to determine a codec support capability of the codec controller (presence indicator; signals whether the primary codec is enabled or not so as to send signals to the controller; fig. 2).

As per claim 17, Lehwalder discloses a method of configuring a plurality of riser codecs, the method comprising: monitoring a status of a signal where the signal status indicates whether data is to be delivered from a primary codec to a codec controller; (presence indicator; signals whether the primary codec is enabled or not so as to send signals to the controller; fig. 2); selecting a two-codec address structure (2 secondary codecs) when the signal status indicates that the codec controller supports up to two codecs; and selecting a three-codec address structure (3 secondary codecs) when the signal status indicates that the codec controller supports up to three codecs (e.g. col. 10-65).

As per claim 18, Lehwalder discloses the method of claim 17 further including determining whether a data delivery pin of a connector (5) is terminated (presence indicator;

Art Unit: 2112

disabled), the connector coupling a riser containing the riser codecs to a motherboard containing the primary codec and the codec controller (fig. 2).

As per claim 19, Lehwalder discloses the method of claim 17 further including: placing the primary codec at a first address (e.g. 00); placing a first riser codec at a second address (e.g. 01); and placing a second riser codec at a third address (e.g. 10).

As per claim 20, Lehwalder discloses the method of claim 17 further including: disabling the primary codec (hold in reset; fig. 2); placing a first riser codec at a first address (primary; 00); and placing a second riser at a second address (secondary 01; col. 9, lines 10-45).

As per claim 21, Lehwalder discloses a computer-readable storage medium storing a set of instructions (BIOS), the set of instructions capable of being executed by a processor to configure a plurality of riser codecs, the method comprising: monitoring a status of a signal where the signal status indicates whether data is to be delivered from a primary codec to a codec controller (presence indicator signal); selecting a two-codec address structure (2 secondary codecs) when the signal status indicates that the codec controller supports up to two codecs; and selecting a three-codec address structure (3 secondary codecs) when the signal status indicates that the codec controller supports up to three codecs (e.g. col. 9, lines 10-67).

As per claim 22, Lehwalder discloses the computer-readable storage medium of claim 21 wherein the method further includes determining whether a data delivery pin of a connector (5) is terminated (disabled), the connector coupling a riser (2) containing the riser codecs (21a-c) to a motherboard (1) containing the primary codec (20) and the codec controller (4; fig. 2).

Art Unit: 2112

#### Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul R. Myers whose telephone number is 571 272 3639. The examiner can normally be reached on Mon-Thur 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 571 272 3632. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRM February 10, 2005

PAUL R. MYERS
PRIMARY EXAMINER

Paul R. Myan

Page 8